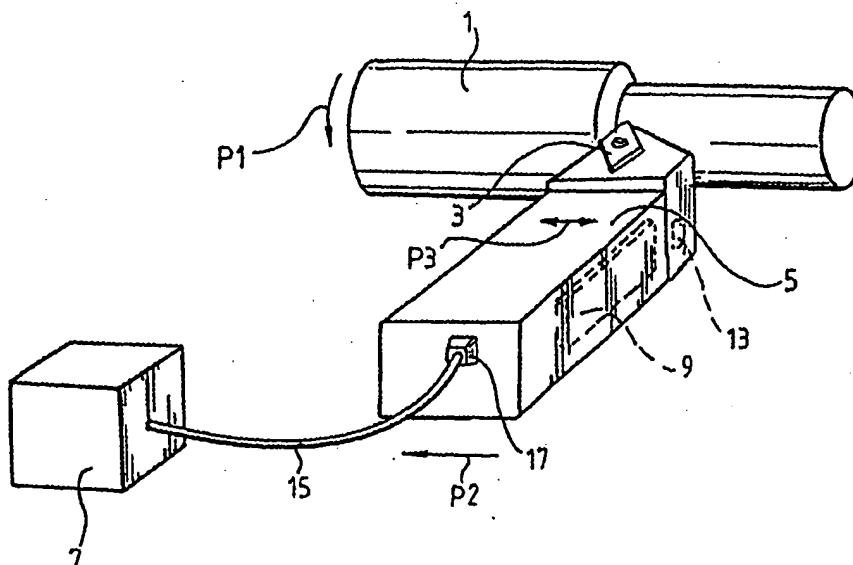




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<b>(21) International Application Number:</b> PCT/SE99/01884 <b>(22) International Filing Date:</b> 19 October 1999 (19.10.99) <b>(30) Priority Data:</b> 9803606-4      22 October 1998 (22.10.98)      SE <b>(71)(72) Applicants and Inventors:</b> CLAEISSON, Ingvar [SE/SE]; Hällestadsvägen 59, S-240 20 Dalby (SE). LAGÖ, Thomas [SE/SE]; Kristinedalsvägen 54, S-553 31 Jönköping (SE). HÅKANSSON, Lars [SE/SE]; Norra Hagtomsgatan 10, S-256 62 Helsingborg (SE). <b>(74) Agent:</b> AWAPATENT AB; P.O. Box 45086, S-104 30 Stockholm (SE).		<b>(81) Designated States:</b> AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <i>In English translation (filed in Swedish).</i>

(54) Title: METHOD AND DEVICE FOR CONTROLLING A TURNING OPERATION



## (57) Abstract

The invention relates to a device for increasing the surface smoothness of a turned surface, said device comprising a control system with a control unit (7) and an actuator (9) connectible to the control unit and connectible with a tool holder (5). The actuator is adapted to impart a vibrating motion in the lateral direction to the tool holder. The invention also relates to a method for increasing the surface smoothness of a turned surface, comprising the step of controlling the vibrations of the tool holder during turning. The method also comprises the step of imparting a vibrating motion in the lateral direction to the tool holder. Moreover, the invention relates to a turning lathe and a turning tool holder which like the device are designed to generate said vibrating motion in the lateral direction.

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